FROM: CAMPBELL&FLORES FAX NO.: 1-619-232-1355 Mar. 12 2001 11:23AM P4

PATENT

Our Docket: P-LA 1245

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of Border and Ruoslahti

Group Art Unit: 1644

Serial No: 08/349,479

Examiner: P. Gambel

Filed: December 2, 1994

For: INHIBITING TRANSFORMING)

GROWTH FACTOR β TO

PREVENT ACCUMULATION OF)
EXTRACELLULAR MATRIX)

Commissioner for Patents Washington, D.C. 20231

DECLARATION UNDER 37 C.F.R. § 1.132

- I, Lucia L. Languino, hereby declare as follows:
- 1. I am currently an Associate Professor of Pathology at Yale University School of Medicine. I have been a faculty member at Yale University School of Medicine since 1994.
- 2. I received a doctorate in Pharmacology from the Negri Institute of Pharmacological Research, Milan, Italy in 1984. I was a post-doctoral fellow in the laboratory of Erkki Ruoslahti, M.D., Ph.D., at The Burnham Institute, known at that time as the La Jolla Cancer Research Foundation, from 1987 to 1991.

Exhibit A

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Inventors:

Border and Ruoslahti

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3. I understand that the claims pending in the above-identified application stand rejected, in part, based on the assertion that the Applicants have allegedly not shown conception prior to December 22, 1988, of the use of anti-TGF- β antibodies to decrease the deleterious TGF- β -induced production and accumulation of extracellular matrix (ECM) associated with a pathology or condition.

- 4. I was a postdoctoral fellow in Dr. Ruoslahti's laboratory during the time period Dr. Border conducted research related to the above-identified patent application in Dr. Ruoslahti's laboratory. Prior to December 22, 1988, I was asked by Drs. Border and Ruoslahti to assist in the preparation of anti-TGF- β antibodies against amino acids 78 to 109 of TGF- β for a stated goal of using anti-TGF- β antibodies to inhibit TGF- β in order to decrease the deleterious TGF- β -induced production and accumulation of extracellular matrix (ECM) associated with a disease, including kidney disease.
- December 22, 1988, with Drs. Border and Ruoslahti, attached to this Declaration as Exhibit A, is a La Jolla Cancer Research Foundation animal usage form related to the project entitled "Anti-human TGF- β Cyclized Peptide," which lists Dr. Border and myself as the investigators. The date of Exhibit A, which is prior to December 22, 1988, has been redacted. The animal usage form was submitted for the goal of generating an inhibitory antibody that would inhibit TGF- β binding to cells and, therefore, inhibit TGF- β activities, including ECM production.

FROM : CAMPBELL&FLORES FAX NO. : 1-619-232-1355 Mar.

0. : 1-619-232-1355 Mar. 12 2001 11:24AM P6

Inventors:

Border and Ruoslahti

Serial No.:

08/349,479

Filed:

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observations and communications as described in the foregoing paragraphs, that Drs. Border and Ruoslahti prior to December 22, 1988, conceived of using anti-TGF- β antibodies to inhibit TGF- β in order to decrease the deleterious TGF- β -induced production and accumulation of extracellular matrix (ECM) associated with a disease, including kidney disease.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

3/12/01

Lucia R. Languino

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v		
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AUF 1413

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1,	PRINCIPAL INVESTIGATOR		OFFICE PHONE	HOME/EMERGEN				
	WAYNE A. BORDER, M.D.		226	(714) 7	70-4602			
,	OTHER INVESTIGATOR							
•	LUCIA LANGUINO, Ph.D.		230	539-060	9			
3.	SENIOR TECHNICIAN							
				J L				
4,	PROJECT TITLE							
	ANTI-HUMAN TGF8 CYCLIZED PEPTIDE							
5.	GRANT NUMBER, IF ANY	NEW	RENEWAL	PILOT	PROJECT NUMBER			
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u.	QUANTITY:		2					
7.	7. PROJECT GOAL (SEE INSTRUCTIONS)							
	To produce quantities of anti-human TGF\$ cyclized peptide for use in kidney disease research.							
8.	8. RATIONALE (SEE INSTRUCTIONS)							
	Rabbits produce high quality antiserum which can be used for identification of human IGF8 in tissue samples and in vitro assays to study progression of kidney injury.							
•	DESCRIBE USE OF ANIMALS (SEE INSTRUCTIONS)							
4.		ed by ani	mal care	facility per	rsonnel.			
	All injections/bleedings to be performed by animal care facility personnel. 1. Pre-bleeding 20 ml from ear vein . 2. Inject 500 TGFB cyclized purified peptide (0.5 ml antigen in PBS + 0.5 ml FCA)							
	subcutaneously in 2 sites.							
	3. After one month, boost with 125 µg	antigen	(0.25 ml	antigen in I	PBS + 0.25 ml incomple			
4. After 10 days, bleed 50 ml from alternating ear veins 3 times. POLICE FOR THE STANDARD OF T					FF2 AN MAR RISHARDS COMMITTEE FOR THE FEB COMMITTEE			
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10.	PAIN LEVEL A B C (IF B OR C R	EAO INSTRUCTIO	ONS. PROVIDE DESC	CRIPTION OR JUSTIFIC	RESEARCH PROTOCAL ATION HERE)			
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11.	EUTHANASIA (SEE INSTRUCTIONS)							
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	SIGNATURES TECHNIQUE 0.0.				<u> </u>			
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